

# Leena Abdelrahman

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## Education

**University of Illinois Urbana Champaign (UIUC - Sophomore)**  
*Bachelor of Science in Computer Science*

**Champaign, IL**  
*Aug 2021 – May 2025*

## Experience

### CodeADA 48 hour Hackathon Participant

**Champaign, IL**

*Software Engineer - To-do List App, Sustainability React Webpage*

*October 2022 (2 days)*

- Repurposed an existing react template and created a user interface and homepage using React, HTML, and JavaScript that educates individuals and calls for action to protect our fresh water rivers.
- Created a to-do list app using React Native, HTML, and JavaScript. Used the onpressed function to create buttons and prompted for user inputs to modify data on the to-do list.

### CS 222 - Software Design Lab

**Champaign, IL**

*Software Engineer - Machine Learning, JavaScript, HTML*

*September – December 2022 (4 months)*

- Worked collaboratively to create a website that provides a user with features in order to help decipher handwriting and text.
- Acquired fundamental knowledge in machine learning and TensorFlow through Datalore, and created a machine learning model that reads handwritten characters using the MNIST data set.
- Created a feature for the website that uses Optical Character Recognition, JavaScript, and HTML to read and convert an image to text. This feature also has the ability to also take HTML code, compile it and show the user a preview.
- Repurposed a GitHub template that uses a canvas to predict a handwritten digit to take a user-inputted file upload and provide a prediction for that digit.

### Virtual Book Builders

**Champaign, IL**

*Education Director*

*September 2022 – (Current)*

- Selected as the Education Director of the UIUC chapter of Virtual Book Builders.
- Working with the Vice Education Director, and the Education Chair to select interactive technology and software for the mentorship program.
- Responsible for tracking mentorship attendance and hosting small group discussions to discuss lessons learned, mentorship feedback, and track overall program health.

### CS225 - Data Structures (Road Network Project)

**Champaign, IL**

*Software Engineer - C++ Team Project*

*November – December 2022 (2 months)*

- Using the City of Oldenburg Road Network dataset our team worked to answer the leading question: What is the best way to get around the City of Oldenburg?
- We used 3 algorithms to answer this question. Breadth First Search, Betweenness Centrality, and Dijkstra's algorithms.
- Implemented Dijkstra's algorithm to: Returns all shortest paths between each road to a source node with each corresponding distance, Return the shortest path between 2 roads and the distance

### CS124 - Course Assistant

**Champaign, IL**

*Intro to CS Course Helper, Course Discussion Leader, Java*

*January - May 2022 (5 months)*

- Responsibilities include: Assisting students with questions about course material, homework programming problems, and creating interactive coding walk-throughs for the Java programming lessons.
- Leading an in-person discussion section every Thursday to assist students with practice quizzes, homework programming problems, and lesson material.

## Awards & Skills

**Recognition:** Society of Women Engineers STEM Headstart Scholar

**Awards:** Girls Who Code Pitch Competition Hosted by Salesforce - 1st Place

**Knowledge of:** UX/UI Design, Object Oriented Programming, Machine Learning

**Software:** Java, C++, HTML (Intermediate), CSS (Intermediate)